

WHAT IS CLAIMED IS:

1. An apparatus for reproducing image data formed by imaging an object, comprising:

a reader circuit for reading out image data, first color space information represented by a plurality of coefficients converting the image data in a color space set when imaging the object, and color temperature information optimum for the first color space information;

a first color space corrector for correcting the image data based on the first color space information;

a color temperature adjuster for correcting the image data corrected by said first color space corrector based on the color temperature information; and

a second color space corrector for correcting the image data adjusted by said color temperature adjuster based on second color space information represented by a plurality of coefficients converting the image data to a color space set in said apparatus.

2. The apparatus in accordance with claim 1, wherein the first color space information includes a standard prescription for a color space proposed by a manufacturer, and the second color space information defines a color space desired by a user of said apparatus.

3. A solid-state imaging apparatus comprising:

an image pickup device including an array of photosensitive cells for transducing incident light from an object field into an electrical image signal;

said apparatus having a raw data mode for recording the image signal in a form of digitized, raw image data;

an adjustment decision circuit for adjusting color temperature in the image data, based on the image data, determining whether or not adjustment of the color temperature

is optimum, and outputting gain adjustment information reflecting the color temperature resultant from determination;

a recording adjuster for adjusting the raw image data as well as color space information including a plurality of coefficients for converting the raw image data to a color space used in imaging the object field and the gain adjustment information to a predetermined recording form; and

a system controller for controlling said adjustment decision circuit and said recording adjuster.

4. The apparatus in accordance with claim 3, further comprising:

a color space corrector for correcting the image data in accordance with the color space information of the color space used in imaging the object field; and

a gain adjuster for correcting the image data corrected by said color space corrector based on the gain adjustment information output from said adjustment decision circuit.

5. A solid-state imaging system wherein incident light from an object field is transduced by an image pickup device including an array of photosensitive cells into an electrical image signal, and in a raw data mode the image signal is recorded in a form of digitized, raw image data, said system comprising:

an adjustment decision circuit for adjusting color temperature in the image data, based on the image data, determining whether or not adjustment of the color temperature is optimum, and outputting gain adjustment information reflecting the color temperature resultant from determination;

a writer/reader for adjusting the raw image data as well as first color space information including a plurality of coefficients for converting the raw image data to a color space used in imaging the object field and the gain adjustment information to a predetermined recording form, and for recording

and reproducing the raw image data, the first color space information and the gain adjustment information;

a first color space corrector for correcting the image data based on the first color space information;

a color temperature adjuster for adjusting the image data corrected by said first color space corrector based on the gain adjustment information;

a second color space corrector for correcting the image data adjusted by said color temperature adjuster based on second color space information represented by a plurality of coefficients converting the image data to a color space set in said system; and

a system controller for controlling said adjustment decision circuit, said writer/reader, said color temperature adjuster and said first and second color space correctors.

6. The system in accordance with claim 5, wherein the first color space information includes a standard prescription for a color space proposed by a manufacturer for imaging the object field, and the second color space information defines a color space desired by a user of said system.

7. The system in accordance with claim 5, wherein said first color space corrector uses a linear corrector for correcting the image data in accordance with the first color space information used in imaging the object field;

said color temperature adjuster using a gain adjuster for correcting the image data corrected by said first color space corrector based on the gain adjustment information output from said adjustment decision circuit.

8. The system in accordance with claim 6, wherein said first color space corrector uses a linear corrector for correcting the image data in accordance with the first color

space information used in imaging the object field;

said color temperature adjuster using a gain adjuster for correcting the image data corrected by said first color space corrector based on the gain adjustment information output from said adjustment decision circuit.